EPA/PWS/89-045

GROUNDWATER QUALITY PROTECTION PROGRAM:

FORREST
FACILITY NUMBER 1050450
WELL SITE SURVEY REPORT

Presented by:

Division of Public Water Supplies

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INTRODUCTION

This report has been prepared by the Agency pursuant to Section 17.1 of the Illinois Environmental Protection Act. The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

The Village of Forrest obtains its water from two public water wells. These wells supply an average of 135,000 gallons per day (gpd) to 1,240 services. Well #1 is the main supply and Well #3 is a backup. Well #2 has not been in use for several years. Sand has filled in the well screen. The well seal has been removed. The old motor was placed on top of the casing but it does not seal it. Table I provides a description of each well as follows;

				Table I	,				
	Minimum Setback		k	(gpm)	Specific Capacity	\ Twostmont	Aguifor	Well Well Depth Logs	hla
	(11.)	(ft.)	Statu	s (MGD)	(gpm/rt./	reatment	Aquirer	(ft.) Availa	оте
Well #1				350		Aer., Filt.	Sand 8	×	
(IEPA #47505) Well #2	400	No	Α	0.504		Ch1., F1:	Gravel	1114	
(IEPA #47506			В				Same	102	
Well #3				270					
(IEPA #47507	400	No	SB	0.389	10.5	Same	Same	105	

I - Inactive SB - Standby

Both active wells utilize an unconsolidated sand and gravel aquifer. The surficial geologic susceptibility rating (permeability rating) for Well 1 is AX. The sand and gravel aquifer is overlain by alluvial sediments with moderate to high permeability. The rating for Well 3 is B1. The sand and gravel aquifer is overlain by low permeability glacial till which in turn is overlain by high permeability sand and gravel sediments. Permeability is a measure of the ability of a soil or sediment to transmit fluids. A detailed description and geologic profile is found in the Facility Wells Report (Appendix C).

Normal groundwater flow is estimated to be from northeast to southwest, towards the Vermillion River. However, flow direction may be influenced by pumping wells.

A - Active

B - Abandoned

GROUNDWATER SAMPLING AND MONITORING HISTORY

Forrest Wells #1 and 3 were sampled on March 27, 1986 as part of a Statewide Groundwater Monitoring Program. The samples were analyzed for volatile organic/aromatic compounds (VOC/VOA) and inorganic chemicals (IOC). In addition, Well #3 was sampled for synthetic organic pesticides (SOC).

VOC/VOA analyses performed did not detect quantifiable levels of any volatile organic/aromatic compounds. IOC analyses indicate that parameters are consistent with other sand and gravel aquifers in Illinois. Initial SOC analyses did not detect any pesticides. However, followup sampling of Well 3 as part of a Special Pesticide Study indicated low levels of chlordane. Subsequent quarterly testing of Well #3 has failed to confirm the presence of any synthetic organic pesticides. Detailed analytical results are found in Appendix D, information on chlordane can be found in Appendix E.

SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory that relate information about potential contamination sources, routes, and possible problem sites to public water supply well(s). The location of potential sources, routes, possible problem sites, minimum setback zones and the 1,000 foot survey area are all displayed on the aerial photographic map (Appendix B).

The first page of each survey consists of a summary description and geologic profile for the well. The second and following pages of the survey inventory units within and bordering a 1,000 foot radius of the wellhead. A unit is defined as "my device, mechanism, equipment, or area (exclusive of land utilized only for ago cultural production)" (See Groundwater Primer pg. 19). The Agency 5-digit well number is associated with a map code or unit, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (Primer pages 18-19). Each unit or map code is then described and associated with an owner/address. The distance and direction from the wellhead is also indicated.

Survey Results and Findings

The Forrest well site field survey was conducted on July 1, 1987 by Wade Boring from the Agency's Springfield Regional Office. Dennis Grear, Forrest's water plant operator, was interviewed during a previous sampling visit. The following describes the results and findings for the Forrest public water supply wells.

Forrest Well #1 (IEPA #47505)

The survey area is rural. The area is a mixture of row crops and woodland along the South Fork of the Vermillion River and is subject to flooding. There is one possible problem site located within 1,000 feet of Well #1. This is an improperly abandoned public water well (map code 1) located 700 ft. E. of the wellhead.

Forrest Well #3 (IEPA #47507)

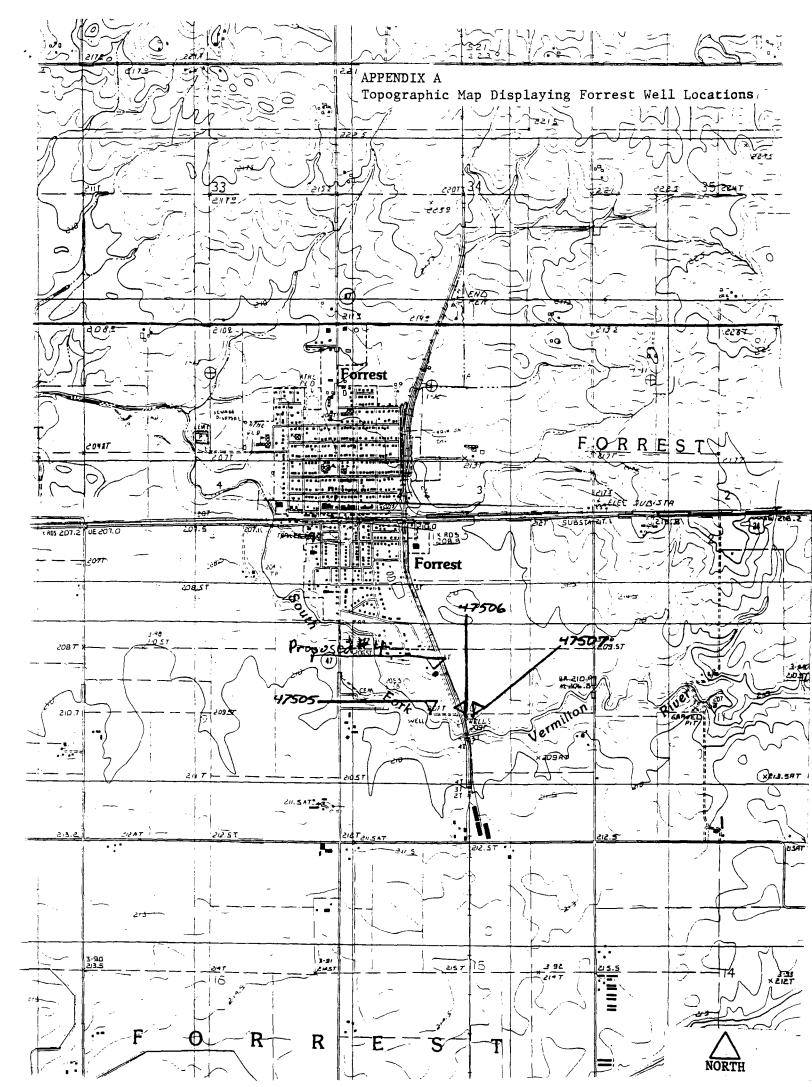
The survey area is rural. The area is a mixture of row crops and woodland along the South Fork of the Vermillion River and is subject to flooding. There is one potential route located near Well #3. This is an improperly abandoned public water well (map code 1) 150 ft. SW of the wellhead.

SUMMARY

There appear to be no potential sources within 1,000 feet of the Forrest public water wells which could impact groundwater. Quarterly samples are being taken to confirm or disprove the presence of any pesticides in the groundwater. It should be noted that there is an agricultural chemical facility and a small quantity hazardous waste generator located approximately 2,000 ft. S of the Forrest public water wells. Well #2 should be retrofitted for use or properly abandoned. Inactive wells which are improperly abandoned are considered potential routes according to the Illinois Environmental Protection Act and could provide an entryway for contaminants into the aguifer.

The Illinois Environmental Protection Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the controls would then be assumed by local officials through adoption of a maximum setback zone ordinance.

TECHNICAL APPENDICES



APPENDIX: B1- Forrest Well #1 (IEPA #47505) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: W. Boring SURVEY DATE: 7-1-87

ADDRESS: Village Hall 209 E. Krach St. Forrest, Illinois 61714

AGENCY WELL NO: 47505
WELL NAME & DESC.: Well I
TREATMENT APPLICATION POINT: 01
FACILITY NO. & NAME: 1050450 Forrest

FAC. PHONE NUMBER: 815/657-8242

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT:

26N, 7E, 10, 6E

DISTANCE FROM CORNER: 2610 S. 1500E

QUAD SHEET CODE & NAME: 113B Forrest South

MIN. SETBACK: 400 ft.

MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: AX-alluvial sand and gravel

sediments

AGE OF WELL (DATE WELL CONSTRUCTION): 1935

WELL DEPTH: 114 ft.

AQUIFER CODE: 0101 - sand and gravel aquifer

MULTIPLE AQUIFER (Y, N): No

SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is rural. Area is a mixture of row crops and woodland along the South Fork of the Vermillion River and is subject to flooding.

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

Dennis Grear, 120 E. John, Forrest, IL 61714

Water Plant Operator, 815/657-8115

WB:rmi/0311k/sp, 7

APPENDIX: B1-Forrest Well #1 (IEPA #47505) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE PP = POTENTIAL PRIMARY PS = POTENTIAL SECONDAY RI = POTENTIAL ROUTE CC = CERTIFIED

OS = POTENTIAL SECONDARY OR = POTENTIAL ROUTE CC = CERTIFIED OX = UNKNOWN CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY

32 = UNKNOWN CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 47505-01-0R NAME & ADDRESS OF UNIT OWNER: Village of Forrest, Village Hall,

Forrest, Illinois 61714

DESCRIPTION AND COMMENTS: Inactive public water well (IEPA #47506)

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 700 ft. E.

WELL NO. - MAP CODE - CLASSF*: 47505-02

NAME & ADDRESS OF UNIT OWNER: Hagar Wood Preserving, P.O. Box 90

Forrest, Illinois 61714 815/657-8281

DESCRIPTION AND COMMENTS: Wood treating and waterproofing, small quantity hazardous waste

generator

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 2000 Ft. SE

WELL NO. - MAP CODE - CLASSF*: 47505-03

NAME & ADDRESS OF UNIT OWNER: Livingston Service Co., Forrest TWP

Forrest, Illinois 61714 815/657-8287

DESCRIPTION AND COMMENTS: ag-chem facility, above ground storage of liquid and dry fertilizers

and pesticides.

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 2220 ft. SE

WB:rm1/0311k/sp, 8

APPENDIX: B2-Forrest Well #3 (IEPA #47507) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: W. Boring SURVEY DATE: 7-1-87

ADDRESS: Village Hall 209 E. Krach St. Forrest, Illinois 61714

AGENCY WELL NO: 47507
WELL NAME & DESC.: Well 3
TREATMENT APPLICATION POINT: 01

FACILITY NO. & NAME: 1050450 Forrest

FAC. PHONE NUMBER: 815/657-8242

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT:

26N, 7E, 10, 4D

DISTANCE FROM CORNER: 2580N, 2500W

QUAD SHEET CODE & NAME: 113B Forrest South

MIN. SETBACK: 400 ft.

MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: B1-sand and gravel overlaying low permeability till.

AGE OF WELL (DATE WELL CONSTRUCTION): 1926

WELL DEPTH: 105

AQUIFER CODE: 0101-sand and gravel aquifer

MULTIPLE AQUIFER (Y, N): No

SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is rural. The area is a mixture of row crops and woodland along the South Fork of the Vermillion River and is subject to flooding.

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

Dennis Grear, 120 E. John, Forrest, Illinois 61714 Water Plant Operator, 815/657-8115

WB:rmi/0311k/sp, 9

*CLASSF KEY

MIN. ZONE

PP = POTENTIAL PRIMARY PS = POTENTIAL SECONDAY RI = POTENTIAL ROUTE

CC = CERTIFIED XI = UNKNOWN CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY OS = POTENTIAL SECONDARY OR = POTENTIAL ROUTE

CC = CERTIFIED OX = UNKNOWNCU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 47507-01-RI

NAME & ADDRESS OF UNIT OWNER: Village of Forrest, Village Hall,
Forrest, Illinois 61714 815/657-8242

DESCRIPTION AND COMMENTS: inactive public water well (IEPA #45706)

PRE OR POST (Y.N): Y

DISTANCE AND DIRECTION: 150 Ft. SW

WELL NO. - MAP CODE - CLASSF*: 47507-02 NAME & ADDRESS OF UNIT OWNER: Hagar Wood Preserving, P.O. Box 90

Forrest, Illinois 61714 815/657-8281

DESCRIPTION AND COMMENTS: wood treating and preserving, small quantity hazardous waste generator

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1850 ft. S

WELL NO. - MAP CODE - CLASSF*: 47507-03

NAME & ADDRESS OF UNIT OWNER: Livingston Service Co., Forrest TWP

Forrest, Illinois 61714 815/657-8287

DESCRIPTION AND COMMENTS: ag-chem facility, above ground storage of liquid and dry fertilizers

and pesticides

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 2100 ft. SW

WB:rmi/0311k/sp, 10

APPENDIX C

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES FACILITY WELLS REPORT

PAGE: 02/11/89

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SUSCEPTIBILITY CODES

LAND BURIAL: AX = ALLUVIUM, A MIXTURE OF GRAVEL, SAND, SILT, AND CLAY ALONG STREAMS, VARIABLE IN COMPOSITION AND THICKNESS,

B1 = SAND AND GRAVEL LESS THAN 20 FT THICK OVER RELATIVELY IMPERMEABLE TILL OR BEDROCK.

*HOTE: INACTIVE VELLS SHOULD EITHER BE RETROFITTED FOR USE OR PROPERLY ABANDONED. INACTIVE WELLS WHICH ARE IMPROPERLY Abandoned are considered potential poutes according to p.a. 85-0863. APPENDIX D

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ILLINDIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES SELECTED SAMPLE EXPANDED REPORT

PAGE: 1 DATE: 02/10/89

SAMPLE NO: 8605434 LOCATION: WELL #1 SMPL TYPE: RAW COLLECTOR: NO NAME SMPL PURP: 1-ROUTINE COMMENTS: SMPL PROG: I-GMM INDRG OBSRVATNS:	000001 027 81294 DYFONATE 000001 028 81403 DURSBAN_U 000001 029 81757 CYANAZINE 000001 030 82088 TERBUFOS	000001 020 39570 000001 021 39600 000001 022 39630 000001 023 39730 000001 024 39760 000001 025 39810 000001 026 77825	0000001 001 39023 PHDRATE UG/L 0000001 002 39300 P,PI-DDT UG/L 0000001 003 39305 D,PI-DDT UG/L 0000001 004 39310 P,PI-DDD UG/L 0000001 005 39315 D,PI-DDD UG/L 0000001 006 39320 P,PI-DDE UG/L 0000001 007 39327 D,PI-DDE UG/L 0000001 008 39330 ALDRIN UG/L 0000001 010 39340 LINDANE UG/L 0000001 010 39356 METOLACHLOR (DUAL) UG/L 0000001 011 39330 DIELDRIN UG/L 0000001 012 39390 ENDRIN UG/L 0000001 013 39398 ETHION UG/L 0000001 015 39410 HEPTACHLOR UG/L 0000001 016 39420 HEPTACHLOR UG/L 0000001 017 39480 METHOXYCHLOR UG/L 0000001 018 39516 TOTAL PCB'S UG/L 0000001 019 39530 MALATHION UG/L	ACILITY: 1050450 FORREST TAP: 01 PLANT ON SOUTH WILLIAMS ST EAST OF RT 47 STATUS: A AW SRCE: 47505 WELL 1 IS ON EAST BANK OF RIVER SAMPLE NO: Z001906 LUCATION: WELL SMPL TYPE: RAW SMPL PURP: 5-SPEC/OTHR COMMENTS: SMPL PROG: B-GWM PEST OBSRVATUS: ANALYSIS RSLTSTORET 10 NO NO DESCRIPTION
COLL LAB LAB (Smpl pp	050	050 050 050 050 050	0.050 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010	PUBLIC: Y COMM: COLL LAB C LAB C SMPL PE UNITS RESULT
DATE: 04/18/86 RCV0: 05/28/86 CCMPL: ERIOD: 04/86		10-000	0 H H O N O O O	TYPE OATE: 07/01 COMPL: 00/00 OMPL: 00/00 RIGD: 07/87 ORINK WTR
DELIVEREL RECEIVEL LAB SUPERVI				WATER: G

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SELECTED STATISTION OF

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0000001	ANALYSIS ID	SAMPLE NO: SMPL TYPE: SMPL PURP: SMPL PROG:		ANALYSIS IO	ACILITY: 1
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00610	27	001905 AW -SPEC/OTHR -GWM INDRG	000403 000403 000403 000403 000403 000900 000900 000945 0000945 000945 000945 000945 000945 000945 000945 000945 000945 0	NG	OFORRES
NITROGEN, AMMONIA TOTAL MG/L AS N	-STORET DESCRIPTION	LOCATION: WELL COLLECTOR: IEPA SMPL COLLECTOR R COMMENTS: RG OBSRVATNS:	ALKALINITY, TOTAL MG/L AS CACO3 ALKALINITY, TOTAL MG/L AS CACO3 ANIEROGEN, AMMONIA TOTAL MG/L AS CACO3 ANIEROGEN, AMMONIA TOTAL MG/L AS N MITRATE & NITRITE TOTAL MG/L AS N HARDNESS, EDTA MG/L AS CACO3 CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP POTASSIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP CHLORIDE, TOTAL MG/L AS SO4 FLUGRIDE, TOTAL MG/L AS CC ANAL BY ICP BRARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP CADMIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP COMBALT, TOTAL RECOVERABLE UG/L AS GO ANAL BY ICP COMBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP COMBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP COMBALT, TOTAL RECOVERABLE UG/L AS GO ANAL BY ICP COMBALT, TOTAL RECOVERABLE UG/L AS GO ANAL BY ICP COMBALT, TOTAL RECOVERABLE UG/L AS GO ANAL BY ICP COMBALT, TOTAL RECOVERABLE UG/L AS GO ANAL BY ICP MANGANESE, TOTAL RECOVERABLE UG/L AS ANAL BY ICP VANADIUM, TOTAL RECOVERABLE UG/L AS ANAL BY ICP VANADIUM, TOTAL RECOVERABLE UG/L AS ANAL BY ICP VANADIUM, TOTAL RECOVERABLE UG/L AS ANAL BY ICP SELENIUM, TOTAL RECOVERABLE UG/L AS ANAL BY ICP VANADIUM, TOTAL RECOVERABLE UG/L AS ANAL BY ICP SELENIUM, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L AS SE ANAL BY ICP COPPER, TOTAL RECOVERABLE UG/L A	-STREET	*** CONTINUED
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	RAW WTR	DELIVERED RECEIVED LAB SUPERVI		RAW HTR	
	TRIGGER LEVEL	ECEIVED BY: SUPERVISOR: FUND CODE:		TRIGGER LEVEL	

FACILITY: 1050450 FORREST

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001 32101 BROMODICHLOROMETHANE UG/L CG/MS 1.000 002 32102 CARBON TETRACHLORIDE UG/L CG/MS 1.000 003 32103 1,2-DICHLOROGETHANE UG/L 1.000 004 32104 BROMOFORM UG/L CG/MS 1.000 005 32105 DIBROMOCHLOROMETHANE UG/L GC/MS 1.000 006 32106 CHLOROFORM UG/L GC/MS 1.000	RSLT STORET UNITS RESULT	E NO: Z001904 LOCATION: WELL COLLECTOR TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAPPROG: V-VOC OBSRVAINS: SMPL	LOW (PUMPING) TIME PRIOR TO SAMPLING MIN 350. 30. 503.	34 71900 MERCURY, TOTAL UG/L AS HG	32 32730 PHENOLS, TOTAL RECOVERABLE UG/L	31 OI167 SELENTUM TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP 5	29 O1007 JINOWITOMPIOTAL RECOVERABLE UG/L ASV ANAL BY ICP 29 O1007 JINO TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	26 01077 SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	24 01055 MANGANESE, TOTAL RECOVERABLE UCL AS MN ANAL BY ICP	23 O1051 LEAD,TOTAL RECOVERABLE UG/L AS PERNAL BY ICP 307	21 01042 COPPER TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	19 01034 CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	18 01027 CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	16 01012 BERTILIUM _e total recoverable ug/l as be anal by ICP	15 01007 BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP 288	14 01002 ARSENIC, TOTAR RECOVERABLE UG/L AS AS	12 00956 SILICA,TOTAL MG/L AS S102	11 00951 FLUORIDE, TOTAL MG/L AS F	10 00945 SULFATE TOTAL MG/L AS SU4	08 00937 POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY TCP 2.	07 00929 SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP 61.	05 00916 CALCIUM,TOTAL RECOVERABLE MG/L AS CA_ANAL BY ICP 83.	03 00665 PHOSPHORUS, TOTAL MG/L AS P 04 00720 CYANIDE, TOTAL MG/L AS CN 0.
^^^^	DRINK	AB RCVD: B COMPL: PERIOO:		^	^ ^	^ 5000	^	< 50.	150	100	^ ^	< 50.	< 10.	500 ^	000 1000	000 50	000	**	300 <	400	000		010 < *10
5.000	HTR RAW HTR	03/27/86 DELIVERED BY: 00/00/00 RECEIVED BY: 00/00/00 LAB SUPERVISOR: 03/86 FUND CODE:		000	0.000	000		-000	0.000	0-000*	.000	00			000	2000							0.200

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00095 CONDUCTIVITYCEC)-LA3CUMHOS/CM 3 25 C 00403 PH LA3DRATORY UNITS 00410 ALKALINITY,TOTAL MG/L AS CACO3 00610 NITROGEN,AMMONIA TOTAL MG/L AS N 00630 NITRATE & NITRITE TOTAL MG/L AS N 00720 CYANIDE,TOTAL MG/L AS CACO3 00916 CALCIUM,TOTAL RECOVERABLE MG/L AS CA 00927 HAGNESIUM,TOTAL RECOVERABLE MG/L AS CA 00927 SODIUM,TOTAL RECOVERABLE MG/L AS CA 00927 SODIUM,TOTAL RECOVERABLE MG/L AS CA 00945 SULFATE,TOTAL MG/L AS SCL 00945 SILICA,TOTAL MG/L AS SO 01002 ARSENIC,TOTAL MG/L AS SO 01002 ARSENIC,TOTAL RECOVERABLE UG/L AS AS 01002 BARIUM,TOTAL RECOVERABLE UG/L AS BAILODA 01012 BARIUM,TOTAL RECOVERABLE UG/L AS SE 01022 CADMIUM,TOTAL RECOVERABLE UG/L AS SE 01023 CHOMIUM,TOTAL RECOVERABLE UG/L AS GO 01034 CHOMIUM,TOTAL RECOVERABLE UG/L AS GO 01034 CHOMIUM,TOTAL RECOVERABLE UG/L AS GO 01034 CHOMIUM,TOTAL RECOVERABLE UG/L AS CO AN 01045 IPON,TOTAL RECOVERABLE UG/L AS CO AN 01045 IPON,TOTAL RECOVERABLE UG/L AS CO AN	ANALYSIS RSLTSIDRET ID NO NO DESCRIPTION	SAMPLE NO: 8039430 LOCATION: WELL #2 SMPL TYPE: RAW COLLECTOR: D W GREEAR SMPL PURP: 1-ROUTINE COMMENTS: SMPL PROG: I-GWM INDRG DBSRVATNS:	FACILITY: 1050450 FORREST TAP: 01 PLANT ON SOUTH WILLIAMS ST EAST OF RT 47 RAW SPCE: 47506 WELL 2 WEST OF 2 WELLS EAST OF RR TRACKS	0000001 007 34010 TOLUENE UG/L 0000001 009 34030 BENZENE UG/L 0000001 009 34301 CHLORDBENZENE UG/L 0000001 010 34371 ETHYLBENZENE UG/L 0000001 011 34423 METHYLENE CHLORDE UG/L 0000001 012 34475 TETRACHLORDETHYLENE UG/L GC/MS 0000001 013 34496 1,1-DICHLORDETHYLENE UG/L GC/MS 0000001 014 34501 1,1-DICHLORDETHYLENE UG/L GC/MS 0000001 015 34506 1,1-TRICHLORDETHYLENE UG/L GC/MS 0000001 016 39180 TRICHLORDETHYLENE UG/L GC/MS 0000001 016 39180 TRICHLORDETHYLENE UG/L GC/MS 0000001 017 00059 FLOW (PUMPING) RATE GAL/MIN 0000001 018 72004 FLOW (PUMPING) TIME PRIOR TO SAMPLING	FACILITY: 1050450 FORREST
ANAL BY ICP CA ANAL BY ICP CA ANAL BY ICP ANAL BY ICP BE ANAL BY ICP BE ANAL BY ICP			STATUS: A STATUS: A STATUS: I	S NIN	*** CONTINUE
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970.000 7.200 580.000 9.100 0.140 0.005 44.500 71.000 10.000 10.000 1.000 3.300.000 3.0000 5.000 5.000 5.000 71.000 71.000 71.000	RESULT -	COLL DATE: LAB RCVD: LAB COMPL: SMPL PERIOD:	Y COMM: Y	1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000 < 1.000	
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WWW.000 001 WW.000 001 WW.000 002 WW.000 002 WW.000 003	412WA00 001 39340 LINDANE UG/L 412WA00 002 39410 HEPTACHLOR UG/L 412WA00 003 39330 ALDRIN UG/L 412WA00 004 39420 HEPTACHLOR EPOXIDE UG/L 412WA00 005 39348 ALPHA CHLORDANE UG/L 412WA00 005 39910 GAMMA CHLORDANE UG/L 412WA00 007 39380 DIELDRIN UG/L 412WA00 007 39390 ENDRIN UG/L 412WA00 010 39490 HETMOXYCHLOR UG/L 412WA00 011 39327 DyPI-ODE UG/L 412WA00 012 39315 DyPI-ODE UG/L 412WA00 013 39310 PyPI-ODE UG/L 412WA00 014 39305 DyPI-ODD UG/L 412WA00 015 39310 PyPI-ODD UG/L 412WA00 015 39310 PyPI-ODT UG/L	FACILITY: 1050450 FORREST TAP: 01 PLANT ON SOUTH WILLIAMS ST EAST OF RT 47 S RAW SRCE: 47507 WELL 3 EAST OF 2 WELLS EAST OF RR TRACKS S SAMPLE NO: D86830730 LOCATION: FORREST/WELL 3 SMPL TYPE: RAW COLLECTOR: D GREEAR SMPL PURP: 3-VARIANCE COMMENTS: GROUNDWATER PESTICIDE SMPL PROG: 8-GMM PEST 03SRVATNS: 2 QTS WATER ANALYSIS RSLTSTORET ID NO NO DESCRIPTION	FACILITY: 1050450 FORREST ### 01051 LEAD, TOTAL RECOVERABLE UG/L AS PB 01055 MANGANESE, TOTAL RECOVERABLE UG/L AS NI ANAL 01067 NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL 01082 SIRUNTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL 01087 VANADIUM, TOTAL RECOVERABLE UG/L AS SR ANAL 01092 ZINC, TOTAL RECOVERABLE UG/L AS VANAL 01147 SELENIUM, TOTAL RECOVERABLE UG/L AS SR ANAL 01047 SELENIUM, TOTAL RECOVERABLE UG/L AS SR ANAL 01047 SELENIUM, TOTAL RECOVERABLE UG/L AS SE 01047 SELENIUM, TOTAL RECOVERABLE UG/L AS SE 01040 TOTAL DISSOLVED SOLIDS MG/L BY EC 70304 TOTAL DISSOLVED SOLIDS MG/L BY EC
8871 8871 8871 8871 8971 8971	2577 8977 8977 8977 8977 8977 8977 8977 8	STATUS: A PUBLIC: Y STATUS: A STATUS: A UNITS	### CONTINUED ### ANAL BY ICP AL BY ICP ANAL BY ICP ANAL BY ICP BY ICP
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		D BY: MAIL D BY: D V ISOR: JTH CODE: PW30 TRIGGER LEVEL	

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES SELECTED SAMPLE EXPANDED REPORT

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SAMPLE NO: 2001903 LOCATION: WELL SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTO SMPL PURP: 5-SPEC/OTHR COMMENTS:	39300 P,P'-DDT UG/L 39315 O,P'-DDD UG/L 39315 O,P'-DDD UG/L 39315 O,P'-DDD UG/L 39317 O,P'-DDE UG/L 39320 P,P'-DDE UG/L 39320 ALDRIN UG/L 39320 ALDRIN UG/L 39320 ALDRIN UG/L 39340 LINDANE UG/L 39340 LINDANE UG/L 39356 METOLACHLOR CDUAL) UG/L 39356 METOLACHLOR CDUAL) UG/L 39360 DIELDRIN UG/L 39380 DIELDRIN UG/L 39390 ETHION UG/L 39390 ETHION UG/L 39390 ETHION UG/L 39390 ETHION UG/L 39390 DIAZINGN UG/L 39390 ETHION UG/L 39310 HEPTACHLOR EPOXIDE UG/L 3940 METHYNORYCHLOR UG/L 39510 TOXAPHENE UG/L 39510 MALATHION UG/L 39510 METHYN PARATHION UG/L 39610 METHYN PARATHION UG/L 39730 2,4-D UG/L 39730 2,4-D UG/L 39730 2,4-D UG/L 39710 SILVEX UG/L 39710 GAMMA CHLORDANE UG/L 46313 PHORATE UG/L 17825 ALACHLOR UG/L 81294 DYFONATE UG/L 81294 DYFONATE UG/L 81757 CYANAZINE UG/L 81757 CYANAZINE UG/L	ANALYSIS RSLTSTORETID NO DESCRIPTION	SAMPLE NO: D757240 LOCATION: FORREST #3 SMPL TYPE: RAW COLLECTOR: BORING SMPL PURP: 5-SPEC/OTHR COMMENTS: SMPL PROG: 9-GMM PEST 09SRVATNS:	418WNOO 013 39356 METOLACHLOR (DUAL) UG/L 418WNOO 014 81757 CYANAZINE UG/L	FACILITY: 1050450 FORREST
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ILLINDIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES SELECTED SAMPLE EXPANDED REPORT

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780.000 7.600 399.000 4.900	RESULT DRINK HTR RA	COLL DATE: 04/18/86 LAB RCVD: 05/28/86 LAB COMPL: SMPL PERIOD: 04/86	0.050 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 < 1.000 < 4.000 0.010 < 4.000 0.010 < 5.000 0.010 < 5.000 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 0.050 < 10.000 0.050 < 10.000 0.050 < 11.500 11.500 < 11.500 11.500 11.500 11.500 11.500 11.500 11.500	RESULT DRINK HTR	SMPL PERIOD: 03/86		NCY
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FACILITY: 1050450 FORREST

ILLINDIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES SELECTED SAMPLE EXPANDED REPORT

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0000001 001 00610 NITROGEN, AMMONIA TOTAL MG/L AS N 0000001 002 00630 NITRATE & NITRITE TOTAL MG/L AS N 0000001 003 00665 PHOSPHORUS, TOTAL MG/L AS P 0000001 004 00720 CYANIDE, TOTAL MG/L AS CN 0000001 005 00916 CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP 0000001 006 00927 MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP 0000001 007 00929 SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP 0000001 008 00937 POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP 0000001 009 00940 CHLORIDE, TOTAL MG/L AS CL	ANALYSIS RSLTSTORET 10 NO NO DESCRIPTION UNITS	SAMPLE NO: 200190? LOCATION: WELL SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR SMPL PURP: 5-SPEC/OTHR COMMENTS: SMPL PROG: I-GWM INORG 09SRVATNS:	70304 TOTAL DISSOLVED SOLIDS MG/L BY EC 71900 MERCURY,TOTAL UG/L AS HG	RESIDUE, TOTAL FILTERABLE DIS	RECOVERABLE	VANADIUM, TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL	NICKEL, TOTAL RECOVERABLE UG/L AS AC ANAL BY ICO	MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL	IRON, TOTAL RECOVERABLE, UG/L AS D	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY I	COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	CADMIUM, TOTAL RECOVERABLE UGZL AS CD	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY	O1007 BARIUM.TOTAL RECOVERABLE US/L AS BA AVAI BY TOP	SILICA, TOTAL MG/L AS S102	FLUORIDE, TOTAL MG/L A	SULFATE TOTAL MG/L AS	CHIORIDE TOTAL MG/L AS CI	SOTASSTILL TOTAL DESCRIPTION OF MICH. BY ICAN AND BY ICAN AND AND BY ICAN AND AND BY ICAN	MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL	CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	00720 CYANIDE-TOTAL MG/L AS CACO3	00630 NITRATE & NITRITE TOTAL MG/L AS N
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	RAW WTR LEVEL	DELIVERED BY: RECEIVED BY: LAB SUPERVISOR: FUND CODE:																							

FACILITY: 1050450 FORREST

ILLINGIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES SELECTED SAMPLE EXPANDED REPORT

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0000001 001 2301 BROMODICHLOROMETHANE UG/L CG/MS 0000001 002 32102 CARBON TETRACHLORIDE UG/L CG/MS 0000001 003 32103 1,2-DICHLOROETHANE UG/L CG/MS 0000001 004 32104 BROMOFORM UG/L CG/MS 0000001 005 32105 DIBROMOCHLOROMETHANE UG/L GC/MS 0000001 006 32106 CHLOROFORM UG/L GC/MS 0000001 007 34010 TOLUENE UG/L 0000001 008 34030 BENZENE UG/L 0000001 010 34371 FTHYLSENZENE UG/L	ANALYSIS PSLTSTORET ID NO DESCRIPTION UNITS	SAMPLE NO: Z001901 LOCATION: WELL SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR SMPL PURP: 5-SPEC/OTHR COMMENTS: SMPL PROG: V-VOC 03SRVATNS:	000001 036 000 000001 037 000 000001 038 004 000001 039 720	000001 032 32/30 PHENDLS, TOTAL RECOVERA 000001 033 70300 RESIDUE,TOTAL FILTERABL 000001 034 71900 MERCURY,TOTAL UG/L AS H	00001 027 01082 STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY 00001 028 01087 VANADIUM, TOTAL RECOVERABLE UG/L ASV ANAL BY 100001 029 01092 ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY 1CP 00001 030 01105 ALUMINUM, TOTAL RECOVERABLE UG/L ASAL ANAL BY 00001 031 01175 SELENIUM, TOTAL RECOVERABLE UG/L ASSE	000001 023 01031 LEAD, TOTAL RECOVERABLE UG/L AS PB 0000001 024 01955 MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP 0000001 025 01067 NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP 0000001 026 01077 SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	000001 018 01027 CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY 000001 019 01034 CHROMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY 000001 020 01037 COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY 000001 021 01042 COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY 000001 022 01045 IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY IC	OCCOOL OLZ COSS SILICA, TOTAL MG/L AS SIOZ OCCOOL OLS COSS SILICA, TOTAL MG/L AS SIOZ OCCOOL OLS COSS ARSENIC, TOTAL RECOVERABLE UG/L AS AS OCCOOL OLS COLOT BARIUM, TOTAL RECOVERABLE UG/L AS BE ANAL B OCCOOL OLS COLOL BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL SY OCCOOL OLT COLOZ BORON. TOTAL RECOVERABLE UG/L AS B ANAL SY	000001 010 00945 SULFATE, TOTAL MG/L AS FO
1.000 < 5.000 1.000 < 5.000 1.000 < 5.000 1.000 < 5.000 1.000 < 5.000	RESULT DRINK WTR RAW WTR LEVEL	COLL DATE: 03/27/86 DELIVERED BY: LAB RCVD: 00/00/00 RECEIVED BY: LAB COMPL: 00/00/00 LAB SUPERVISOR: SMPL PERIOD: 03/86 FUND CODE:	770.000 270.000 122.000- 7.200 140.000 532.000		753.000 5.000 < 5000.00^ 50.000 < 5000.00^	39,000 < 3,000 <	N	19.000 1.000 < 50.000 297.000 1000.000 0.500 <	10.000 < 0.360 4.000

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APPENDIX E

Office of Chemical Safety 2200 Churchill Road, P.O. Box 19276 Springfield, Illinois 62794-9276

IEPA/ENV/87-001-2

March, 1987

- CHLORDANE -

CHEMICAL INFORMATION SHEET*

WHAT IS CHLORDANE?

Chlordane is a broad spectrum insecticide which has been used extensively over the past 40 years for termite control, for general insect control in homes and gardens, and for control of soil insects in the production of crops such as corn. Both the uses and production volume of chlordane have decreased substantially as a result of the Environmental Protection Agency's Registration Suspension Notice (40 FR 34456 Aug. 15, 1975). The suspension forbids the use of chlordane on all food crops and for general insecticidal use around homes and gardens. However, significant commercial use of chlordane for termite control continues because there is no effective substitute. At present, federally registered products containing chlordane are available for purchase by homeowners and licensed applicators for underground termite control only. Any other use by a homeowner or applicator is a violation of Federal and State law.

WHAT IS THE OCCURRENCE OF CHLORDANE IN THE ENVIRONMENT?

There are no known natural sources of chlordane. Its presence in the environment is due to extensive production and use over the past decades which led to widespread environmental dissemination and the subsequent contamination of soil, water, and air. Chlordane has been detected in milk, meat, fish, and humans.

Chlordane is highly persistent in the environment because it binds tightly to the soil, migrates very slowly, is insoluble in water, and is relatively impervious to chemical and biological breakdown. Residues of chlordane have been known to persist for 10-20 years in the soil. Chlordane accumulates in the body fat of living organisms, and can therefore become concentrated in the food chain.

The most significant avenue of human exposure to chlordane is from fish consumption. Recent health advisories recommended against the consumption of certain fish species because of the high levels of chlordane found in their flesh. In 1986, health advisories for limited fish consumption were issued for Lakes Michigan, Springfield, Decatur, Taylorville, Clinton, Paris Twin, and the Mississippi River. Where chlordane has been present in waters and sediment for some time, larger fish are more likely to have higher chlordane levels than smaller fish due to their extended exposure period. Fish are tested annually for the presence of certain chemical residues and appropriate health advisories are issued by the Illinois Fish Contamination Monitoring Program.

The program is a cooperative effort between the Department of Agriculture, the Department of Conservation, the Illinois Environmental Protection Agency, and the Department of Public Health.

WHAT ARE THE HEALTH EFFECTS OF CHLORDANE EXPOSURE?

Chlordane can be absorbed into the body via the lung, gastrointestinal tract, and through the skin. It has been estimated that the fatal oral dose for adults lies between 6 and 60 grams (approximally 11/3 to 122/3 teaspoons) with onset of symptoms within 45 minutes to deral hours after ingestion. Chlordane exerts its toxic effects on the central nervous system. Symptoms include convulsions, dizziness, headache, disorientation, weakness, apprehension, excitability, nausea, and vomiting. Blood diseases associated with dermal or inhalational exposure to chlordane have been reported at unspecified exposure levels.

Carcinogenic effects on humans are uncertain due to limited data. In studies conducted by the National Cancer Institute, chlordane was found to cause liver tumors in mice. The applicability of mouse liver tumors for assessing cancer risk to humans is disputed; however, US EPA considers the evidence sufficient to consider chlordane a probable human carcinogen.

HOW IS CHLORDANE REGULATED?

Industrial Hygienists refer to airborne concentrations of substances and represent conditions under which it is be leved that nearly all workers may be repeatedly exposed day after day without everse effect. e threshold limit value for chlordane is 0.03 ppm as an average eight hour emosure for a 5-day workweek. Action levels for poisonous or deleterious substances are established by the Food and Drug Administration (FDA) to control levels of contaminants in human food and animal feed and represent limits at or above which FDA will take legal action to remove contaminated products from the market. Based on EPA's recommendation, FDA guidelines precide an action level of 0.3 ppm for chlordane in freshwater fish. US EPA has established a recommended action level of 0.1 ppm for chlordane residues in various fruits and vegetables commonly produced and consumed in Illinois. Illinois' regulations set a limit of .003 ppm chlordane in finished water for public water supplies. The National Academy of Sciences has recommended an interim guideline for indoor levels of chlordane in houses at 5 ug/m³.

CS:st:1351g,1-2sp

^{* &}lt;u>Note</u>: This information sheet is a summary of readily available data regarding the general nature and effects of this chemical. The reader is encouraged to consult other sources or an appropriate professional if a more detailed explanation for specific concerns is desired.

APPENDIX F

Office of Chemical Safety 2200 Churchill Road, P.O. Box 19276 Springfield, Illinois 62794-9276 ___

IEPA/ENV/87-001-6

April, 1987

- GLOSSARY - CHEMICAL INFORMATION SHEET

absorption - the movement of a chemical into the bloodstream or other body fluid or tissue after its entrance into the body through the skin, lungs, or gastrointestinal tract.

acute - sharp, severe; having a relatively rapid onset, often with severe symptoms and a relatively short course. In toxicology refers to a single large exposure to a chemical (acute exposure), or to the development of symptoms of poisoning soon after a single exposure to a substance (acute toxicity).

ACGIH - the American Conference of Governmental Industrial Hygienists. It recommends upper limits (see TLV) for exposure to workplace chemicals.

bioconcentration - the process in and by which chemical substances are accumulated in living organisms above their concentration in the environment. For example, a chemical is spilled into a river or lake and is ingested and stored by small organisms like plankton; small fish eat the plankton; and large fish eat the smaller fish. As this process occurs, the chemical becomes thousands of times more concentrated in the tissues of the large fish than in the plankton or the water. Usually occurs with fat-soluble compounds rather than water-soluble compounds.

biodegradation - the breaking down of an organic substance, resulting from the complex action of living organisms.

cancer - a group of diseases characterized by malignant, uncontrolled growth of cells of body tissue (tumors).

carcinogen - a term applied generally to any substance that is capable of producing cancer or increasing the growth and spreading of tumors in an organism.

chronic - occurring over a period of time. In toxicology refers to repeated exposure (chronic exposure) to a chemical for a relatively long period of time or persistence of symptoms or disease over a long period of time (chronic toxicity).

epidemiology - the study of the incidence, distribution, and control of disease in human populations.

leaching - downward movement of a material in solution through soil.

Maximum Contaminant Level (MCL) - the maximum permissible level of a contaminant that is allowed in a public water supply system.

metabolism - the changes that a chemical undergoes in an organism. The products of metabolism may be more or less active in the organism the the original (parent) compound. In animals, many of these products fine or way to body excretions, for example through lung exhalation, urine, or tracing the pathways of metabolism is important to shed light on possible relationships between chemicals and particular health effects.

mg/m³ - means milligrams of a chemical in a cubic meter of air. It is a density measurement expressing the amount of air pollurant in a given volume of air.

mutagen - a substance that causes a change in the genetic material in a body cell, called a mutation. Mutations may lead to birth defects, miscarriages, or cancer, or they may have no obvious effect, depending on what genetic material is damaged and on where the damage occurs.

persistent — existing for a long time in the environment or the body. For chemicals, this means not easily broken down; for the effects of chemicals, this means the effect remains or recurs long after exposure to the chemical.

pesticide - a general term used to describe a product designed to kill or control unwanted organisms; for example, herbicides are designed to control unwanted plants, insecticides are designed to control unwanted insects, fungicides are designed to control fungus and mold, etc.

ppb - an expression describing a small concentration, equal to an amount of one substance in a billion parts of another material; for example, one drop of alcohol in 16,000 gallons of water.

ppm - an expression describing a small concentration, equal to an amount of one substance in a million parts of another material; for example, one drop of alcohol in 16 gallons of water.

solvent - a liquid substance capable of dissolving or dispersing one or more other substances.

teratogen - a substance that causes stillbirths, birth defects, or malformations by affecting the growing fetus.

TLV — is the Threshold Limit Value for air. The TLV is a workplace exposure limit recommended by ACGIH and represents conditions under which it is believed that nearly all workers may be repeatedly exposed to a substance day after day without adverse effect.

toxicology - the study of the adverse effects of chemicals on living organisms.

volatile - readily vaporizable at a relatively low temperature.

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AAMS EXCURSION OF OZONE NAAQS REPORT

19	992 OZONE EXCURSIONS	$S (DAYS \ge 125PPB)$	•							

DATE	LOCATION	CONCENTRATION	COMMENTS							
Tun 13 1992	Calumet City	126 ppb	1st Excursion							
Jun 13, 1992	Elain	126 ppb 128 ppb	1st Excursion							
Jun 13, 1992	_	131 ppb	1st Excursion							
Jun 13, 1992		149 ppb	1st Excursion							
Jul 1, 1992			1st Excursion							
Jul 1, 1992										
		127 ppb 134 ppb	1st Excursion							
	Des Plaines	134 ppb	1st Excursion							
Jul 1, 1992	Evanston		1st Excursion							
Aug 9, 1992	Evanston	135 ppb	2nd Excursion							
UNHEALTHFUL PSI	DAYS WITHOUT OZONE	EXCURSION (120	< value < 125)							
Jun 13, 1992	Evanston	121 ppb								
Jul 1, 1992		122 ppb								
Jul 1, 1992	Cicero	122 ppb								
	Libertyville	122 ppb								
041 1, 1992	Elbercy ville	122 ppb								
OZONE ADVISORIES ISSUED										
Jun 13, 1992 Jul 1, 1992	AQCR 67 (Chicago) AQCR 67 (Chicago)		ukegan 149 ppb erfield 127 ppb							
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AAMS EXCURSION OF OZONE NAAQS REPORT 1992 OZONE EXCURSIONS (DAYS ≥ 125PPB) ************** DATE LOCATION CONCENTRATION COMMENTS Jun 13, 1992 1st Excursion Calumet City 126 ppb Jun 13, 1992 1st Excursion --Elgin 128 ppb 1st Excursion Jun 13, 1992 Lemont 131 ppb Jun 13, 1992 Jul 1, 1992 Waukegan 149 ppb 1st Excursion Chicago-University 1st Excursion 133 ppb Jul 1, 1992 Deerfield 1st Excursion 127 ppb Jul 1, 1992 Des Plaines 134 ppb 1st Excursion Jul 1, 1992 1st Excursion Evanston 129 ppb Aug 9, 1992 Evanston 135 ppb 2nd Excursion UNHEALTHFUL PSI DAYS WITHOUT OZONE EXCURSION (120 < value < 125) Jun 13, 1992 Evanston 121 ppb Jul 1, 1992 Chicago-Taft 122 ppb Jul 1, 1992 Cicero 122 ppb Jul 1, 1992 Libertyville 122 ppb OZONE ADVISORIES ISSUED Jun 13, 1992 AQCR 67 (Chicago) 3pm CDT Waukegan 149 ppb Jul 1, 1992 AQCR 67 (Chicago) 3pm CDT Deerfield 127 ppb ***************

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